



Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

**(no subject)**

8 messages

**Modi, Beena J** <beena.j.modi@wv.gov>  
 To: Daniel P Roberts <daniel.p.roberts@wv.gov>

## 7.1.4. Requirements for Use of Catalytic Reduction Devices:

- a. Rich-burn engine(s) equipped with non-selective catalytic reduction (NSCR) air pollution control devices shall be fitted with a closed-loop, automatic air/fuel ratio controller listed in the General Permit Registration for any engine/NSCR combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve to within plus or minus 2%.
  - b. For engine(s) equipped with a catalyst, the registrant shall monitor the temperature to the inlet of the catalyst and in accordance with manufacturer's specifications; a high temperature catalyst occurs. If the engine shuts off due to high temperature, the registrant shall also check for thermal deactivation of the catalyst before normal operations are resumed.
  - c. The registrant shall follow a written operation and maintenance plan that provides the periodic and annual maintenance requirements.
- [45CSR13, General Permit Registration G60-C041 and G60-D, 5.1.5.a, 5.1.5.d, and 5.1.5.e]

**Hi Dan,**

Can you read below emails and let me know your answer?

Thanks,

Beena

**Gates, Andy (BHE GT&S)**

to me

Beena,

We have reviewed this and believe that draft condition 7.1.4.b. is not an applicable requirement. This provision did not appear in the General Permit G60-C under which this emergency generator is a certified emergency generator engine. Compliance is maintained by maintaining the engine in accordance with its certification and by complying with the monitoring requirements for that engine.

Please delete draft condition 7.1.4.b.

I believe those are all of the comments we have right now.

Thank you

**McCumbers, Carrie**


to me

Beena,

Although the engine was registered under G60-C, they are now subject to G60-D. You could ask Dan Roberts if the engines would be subject to G60-D, condition 5.1.5.d if they have a catalyst, as, if the engines are certified, are they still subject to the catalyst requirements in the general permit if they are not required by the regulation to install a catalyst to demonstrate compliance.

Thanks,

Carrie

 **DP permit 2021.docx**  
 300K

**Modi, Beena J** <beena.j.modi@wv.gov>  
 To: Daniel P Roberts <daniel.p.roberts@wv.gov>

----- Forwarded message -----  
 From: **Modi, Beena J** <beena.j.modi@wv.gov>  
 Date: Thu, Sep 9, 2021 at 12:23 PM  
 Subject:  
 To: Daniel P Roberts <daniel.p.roberts@wv.gov>

## 7.1.4. Requirements for Use of Catalytic Reduction Devices:

- a. Rich-burn engine(s) equipped with non-selective catalytic reduction (NSCR) air pollution control devices shall be fitted with a closed-loop, automatic air/fuel ratio controller listed in the General Permit Registration for any engine/NSCR combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve than or equal to 2%.
  - b. For engine(s) equipped with a catalyst, the registrant shall monitor the temperature to the inlet of the catalyst and in accordance with manufacturer's specifications; a high temperature catalyst occurs. If the engine shuts off due to high temperature, the registrant shall also check for thermal deactivation of the catalyst before normal operations are resumed.
  - c. The registrant shall follow a written operation and maintenance plan that provides the periodic and annual maintenance requirements.
- [45CSR13, General Permit Registration G60-C041 and G60-D, 5.1.5.a, 5.1.5.d, and 5.1.5.e]**

Hi Dan,

Can you look at below emails and let me know your answer?


Thanks,

Beena

**Gates, Andy (BHE GT&S)**

to me

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 **DP permit 2021.docx**  
300K

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**Roberts, Daniel P** <daniel.p.roberts@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Mon, Sep 13, 2021 at 9:41 AM

Beena,

Hey. I received your email. I was on vacation on Friday. I don't have an answer for your question right off the top of my head and will have to do some research. I will get back to you as soon as I can.

Dan

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Tue, Sep 14, 2021 at 10:16 AM

Carrie,  
I want to talk to you about this. When can I call you?  
[Quoted text hidden]

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Tue, Sep 14, 2021 at 10:22 AM

You can call me now.

[Quoted text hidden]

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**Roberts, Daniel P** <daniel.p.roberts@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Tue, Sep 14, 2021 at 4:42 PM

Beena,

Hey. I have done extensive research, but still don't feel like I have a definitive answer for you. It appears that the language from permit condition 7.1.4.b. was updated from the G10-C to the G10-D (issued May 9, 2018) and would apply, but I cannot find where it originated from. I reviewed 40 CFR 60 Subparts JJJJ and IIII and 40 CFR63 Subpart ZZZZ and did general searches too. Emergency generators EG01 and EG02 were manufactured in 2012 and list NSCR as their control device. Therefore, it appears that the requirement to monitor the temperature to the inlet of the catalyst to prevent thermal deactivation is appropriate. And I believe they would be subject to the catalyst requirements even if they are a certified engine.

I hope this helps. Respond or call if you want to discuss this further,

Dan

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Roberts, Daniel P" <daniel.p.roberts@wv.gov>

Tue, Sep 14, 2021 at 8:31 PM

Thank you for the information, Dan!  
[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Tue, Sep 14, 2021 at 8:32 PM

----- Forwarded message -----  
From: **Roberts, Daniel P** <daniel.p.roberts@wv.gov>  
Date: Tue, Sep 14, 2021, 4:43 PM  
Subject: Re:  
To: Modi, Beena J <beena.j.modi@wv.gov>

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Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

**R30-03300014-2021-Law Compressor Station**

6 messages

**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Jerry Williams <jerry.williams@wv.gov>

Hi Jerry, Can you read below emails and let me know your answer?

Thanks,

Beena

**Gates, Andy (BHE GT&S)**  
to me

Beena,

We have reviewed this and believe that draft condition 7.1.4.b. is not an applicable requirement. This provision did not appear in the General Permit G60-C under which this emergency generator is a certified emergency generator engine. Compliance is maintained by maintaining the engine in accordance with its certification and by complying with the monitoring requirements for t

Please delete draft condition 7.1.4.b.

I believe those are all of the comments we have right now.

Thank you

**McCumbers, Carrie**  
to me

Beena,

Although the engine was registered under G60-C, they are now subject to G60-D. You could ask Jerry Williams if the engines would be subject to G60-D, condition 5.1.5.d if they have a catalyst, if the engines are certified, are they still subject to the catalyst requirements in the general permit if they are not required by the regulation to install a catalyst to demonstrate compliance.

Thanks,  
Carrie

**Williams, Jerry** <jerry.williams@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Thu, Sep 9, 2021 at 8:50 AM

Please send me the permit condition you want me to look at. Thanks  
[Quoted text hidden]

**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Williams, Jerry" <jerry.williams@wv.gov>

Thu, Sep 9, 2021 at 8:58 AM

7.1.4. Requirements for Use of Catalytic Reduction Devices:

- a. Rich-burn engine(s) equipped with non-selective catalytic reduction (NSCR) air pollution control devices shall be fitted with a closed-loop, automatic air/fuel ratio controller to ensure emissions of regulated pollutants do not exceed the emission limit listed in the General Permit Registration for any engine/NSCR combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve to ensure a fuel-rich mixture and a resultant exhaust oxygen content of less than or equal to 2%.
- b. For engine(s) equipped with a catalyst, the registrant shall monitor the temperature to the inlet of the catalyst and in accordance with manufacturer's specifications; a high temperature alarm shall shut off the engine before thermal deactivation of the catalyst occurs. If the engine shuts off due to high temperature, the registrant shall also check for thermal deactivation of the catalyst before normal operations are resumed.
- c. The registrant shall follow a written operation and maintenance plan that provides the periodic and annual maintenance requirements.  
[45CSR13, General Permit Registration G60-C041 and G60-D, 5.1.5.a, 5.1.5.d, and 5.1.5.e]

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**DP permit 2021.docx**  
300K

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**Williams, Jerry** <jerry.williams@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Thu, Sep 9, 2021 at 9:36 AM

I looked at the evaluation and registration for G60-C041 to see if the units had catalysts. Neither document indicated. I did not review this application, Dan Roberts did. You will need to either look at the application on AX or contact Dan. But, if the units are equipped with a catalyst, they would be subject to that requirement.

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Williams, Jerry" <jerry.williams@wv.gov>

Thu, Sep 9, 2021 at 9:49 AM

Ok, will do! Thank you, Jerry!

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Tue, Sep 14, 2021 at 10:13 AM

[Quoted text hidden]



Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

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**Law compressor station**

11 messages

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <andy.gates@bhegts.com>

Fri, Oct 1, 2021 at 12:20 PM

Hi Andy,  
I have updated the permit and factsheet as you requested. Please let me know your comments by October 6th. I am planning to send it to notice soon.

Thank you for your time,

Beena modi

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**2 attachments****DP permit 2021 updated Beena.docx**  
300K**DP factsheet 2021 updated Beena.doc**  
109K

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Fri, Oct 1, 2021 at 12:51 PM

Thank you, Beena – I'll review and let you know if I see anything else.

**Andy Gates**

Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)

[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)

*(Please note new email address)*



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**From:** Modi, Beena J <beena.j.modi@wv.gov>  
**Sent:** Friday, October 1, 2021 12:20 PM

**To:** Gates, Andy (BHE GT&S) <[Andy.Gates@bhegts.com](mailto:Andy.Gates@bhegts.com)>  
**Subject:** [EXTERNAL] Law compressor station

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**Modi, Beena J** <[beena.j.modi@wv.gov](mailto:beena.j.modi@wv.gov)>  
To: Carrie McCumbers <[carrie.mccumbers@wv.gov](mailto:carrie.mccumbers@wv.gov)>

Tue, Oct 5, 2021 at 11:38 AM

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**Gates, Andy (BHE GT&S)** <[Andy.Gates@bhegts.com](mailto:Andy.Gates@bhegts.com)>  
To: "Modi, Beena J" <[beena.j.modi@wv.gov](mailto:beena.j.modi@wv.gov)>

Wed, Oct 6, 2021 at 9:10 AM

Hello Beena –

Thank you for making the changes we requested!

As you requested, I'm providing comments today. I have two more requests:

1. Please delete the references to CPR02. That backup air compressor no longer exists at the facility. I've given some suggestions for removal in the attachment.
2. Would you please consider adding NSPS OOOOa to the permit shield? This facility is currently not subject to those rules. We had put the following information in the application:

40 CFR 60, Subpart OOOOa –This facility has no equipment with applicable requirements under Subpart OOOOa. This subpart applies to equipment installed after September 18, 2015. The facility has no affected emissions units that have been installed after the applicable Subpart OOOOa effective date.

Let me know if you have any questions or we need to discuss. Thank you for the opportunity to provide these comments,

**Andy Gates**  
Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)

[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)

*(Please note new email address)*



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**From:** Modi, Beena J <beena.j.modi@wv.gov>  
**Sent:** Friday, October 1, 2021 12:20 PM  
**To:** Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>  
**Subject:** [EXTERNAL] Law compressor station

**THIS MESSAGE IS FROM AN EXTERNAL SENDER.**

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Hi Andy,

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 **DP permit 2021 updated Beena - EGTS markup.docx**  
302K

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Wed, Oct 6, 2021 at 9:12 AM

----- Forwarded message -----

**From:** Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>  
**Date:** Wed, Oct 6, 2021 at 9:10 AM  
**Subject:** RE: [EXTERNAL] Law compressor station  
**To:** Modi, Beena J <beena.j.modi@wv.gov>

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 **DP permit 2021 updated Beena - EGTS markup.docx**  
302K

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Oct 6, 2021 at 10:22 AM

Beena,

I have attached my responses to his comments. I'm okay with these changes. I found some additional things that will need to be changed though. I'm also okay with adding OOOOa to the permit shield. You will need to update the fact sheet to describe the changes you made regarding CPR01 and will need to add OOOOa to the non-applicability determination section. After you make the changes, please send me the revised permit and fact sheet.

Thanks,  
Carrie

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 **DP permit 2021 updated Beena - EGTS markup Carrie's comments.docx**  
306K



**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Wed, Oct 6, 2021 at 10:23 AM

Ok, thanks Carrie!

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Wed, Oct 6, 2021 at 1:10 PM


Please review.


Thanks!

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## 2 attachments

 **DPFactsheet R30-03300014-2021.doc**  
108K

 **DPPermit R30-03300014-2021.docx**  
301K

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Oct 6, 2021 at 1:41 PM

I have a very minor comment on the fact sheet which is attached. On the permit, I don't really have any comments, but the version you sent me has tracked changes. You need to remove these tracked changes from the permit.

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 **DPFactsheet R30-03300014-2021 Carrie's comments part 3.doc**  
109K

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Wed, Oct 6, 2021 at 2:15 PM

Thank you, Carrie! I fixed it and will send it to Stephanie.

[Quoted text hidden]

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Oct 6, 2021 at 2:22 PM

Ok, thanks!

[Quoted text hidden]



Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

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**EGTS - Law and Deep Valley Stations - emergency generators**

6 messages

**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>

Tue, Sep 28, 2021 at 4:14 PM

To: "McCumbers, Carrie" &lt;carrie.mccumbers@wv.gov&gt;

Cc: "Modi, Beena J" &lt;beena.j.modi@wv.gov&gt;, "Gangle, Richard (BHE GT&amp;S)" &lt;Richard.Gangle@bhegts.com&gt;, "Hall, Stephen (BHE GT&amp;S)" &lt;Stephen.Hall@bhegts.com&gt;

Please see the attached letter regarding the applicability of updated general permits.

We are happy to discuss this further with you.

**Andy Gates**Environmental Consultant  
BHE GT&S, LLC6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340[www.bhegts.com](http://www.bhegts.com)[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)*(Please note new email address)***EGTS Deep Valley and Law Stations - emergency generator G60-D comments 09-28-2021.pdf**

151K

**McCumbers, Carrie** <carrie.mccumbers@wv.gov>

Tue, Sep 28, 2021 at 4:34 PM

To: Beverly D McKeone &lt;beverly.d.mckeone@wv.gov&gt;, Jerry Williams &lt;jerry.williams@wv.gov&gt;

Cc: "Modi, Beena J" &lt;beena.j.modi@wv.gov&gt;

See the attached letter. Do you want me to set up an internal DAQ call to discuss this issue? This is the first time this issue regarding incorporating a G60-C registration with a current G60-D General Permit has come up. We have been doing this for other facilities and have never received this comment or push back.

Thanks,  
Carrie

[Quoted text hidden]

**EGTS Deep Valley and Law Stations - emergency generator G60-D comments 09-28-2021.pdf**

151K

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Tue, Sep 28, 2021 at 4:48 PM

I did ! Yes!

[Quoted text hidden]

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Williams, Jerry" <jerry.williams@wv.gov>, "Modi, Beena J" <beena.j.modi@wv.gov>  
Cc: "McKeone, Beverly D" <beverly.d.mckeone@wv.gov>

Wed, Sep 29, 2021 at 7:15 AM

So we have been incorporating the general permit incorrectly in our Title V permits? We need to go back and put in the G60-C requirements for Law and then reopen Deep Valley and change the requirements back to G60-C? What about all the other G60-C registrations we have been incorporating with the current G60-D permit? What about page 2 of G60-D which says it supersedes and replaces G60-C? Sorry, for all the questions, but this affects more than these two facilities. This is the first time it has come up, but that is probably because the engines at this site have catalysts and their concern is with that one requirement for catalysts that they can't meet.

On Wed, Sep 29, 2021 at 6:56 AM Williams, Jerry <jerry.williams@wv.gov> wrote:  
Thanks. The result is the same. From the G60-D fact sheet:

There will be no future registrations, modifications, or administrative updates allowed to registrations issued under previous versions in the G60 series. If a registrant wishes to modify an existing registration under General Permit G60, it must be done so under General Permit G60-D.

On Wed, Sep 29, 2021 at 6:46 AM Williams, Jerry <jerry.williams@wv.gov> wrote:

The company did not register under the G70-D. Therefore, they would not be subject to the requirements of that permit. If they make a change to their G70 series now, it would have to be the G70-D, otherwise, they continue to operate under the permit they are registered under. From the G70-D Fact Sheet:

Currently, General Permits G70-A, G70-B and G70-C pertain to oil and natural gas production facilities designed and operated for the purpose of oil and natural gas production located at the well site. These general permits will continue to exist, however, there will be no future registrations, modifications, or administrative updates allowed to registrations issued under this permit. If a registrant wishes to modify an existing registration under one of these general permits, it must be done so under General Permit G70-D.

On Wed, Sep 29, 2021 at 6:37 AM McKeone, Beverly D <beverly.d.mckeone@wv.gov> wrote:

Upon further review of the G60 D documents and language on the general permit webpage - I feel that the company is correct. No where on the webpage do we state that folks under the G60-C are now covered under the D. We have added this language for other permits. Also, there is no mention of such a replacement in the G60\_d fact sheet.

So my call is that sources holding a G60-C continue to hold that general permit until such time as they make a change that requires permitting.

Any objections?

Bev

On Tue, Sep 28, 2021 at 4:34 PM McCumbers, Carrie <carrie.mccumbers@wv.gov> wrote:

[Quoted text hidden]

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**McKeone, Beverly D** <beverly.d.mckeone@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>  
Cc: "Williams, Jerry" <jerry.williams@wv.gov>, "Modi, Beena J" <beena.j.modi@wv.gov>, Bev McKeone <beverly.d.mckeone@wv.gov>

Wed, Sep 29, 2021 at 7:32 AM

Sorry - but that is what it means. If they hold a G60-C those conditions should be in their Title V - not G60-D.

Bev

[Quoted text hidden]

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>

Wed, Sep 29, 2021 at 8:05 AM

To: "McKeone, Beverly D" <beverly.d.mckeone@wv.gov>

Cc: "Williams, Jerry" <jerry.williams@wv.gov>, "Modi, Beena J" <beena.j.modi@wv.gov>

I talked to Beena and she is making the changes to Law and we are going to reopen Deep Valley to include G60-C instead of G60-D. For all the other Title V permits, we will make the changes as the permits are renewed. I plan to have a meeting this week to let the Title V Group know of this change.

Carrie

[Quoted text hidden]



Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

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**R30-03300014-2021-Law Compressor Station**

10 messages

**Modi, Beena J** <beena.j.modi@wv.gov>

Tue, Sep 14, 2021 at 3:26 PM

To: "Gates, Andy (BHE GT&amp;S)" &lt;andy.gates@bhegts.com&gt;

Hi Andy,

Regarding comment #4:

Although the engine was registered under G60-C, they are now subject to G60-D. If the units are equipped with a catalyst, they would be subject to that requirement. Please let me know if you want to make a conference call with me and my manager, Carrie McCumbers.

Thanks,  
Beena

---

**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>

Tue, Sep 14, 2021 at 4:14 PM

To: "Modi, Beena J" &lt;beena.j.modi@wv.gov&gt;

Hello Beena –

I'm sorry I missed your call. Are you available Wednesday morning to discuss? I should be free most of the morning. We're still coming to the office every day; I should be available after 8:30.

**Andy Gates**

Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)*(Please note new email address)*

---

**From:** Modi, Beena J <beena.j.modi@wv.gov>**Sent:** Tuesday, September 14, 2021 3:26 PM**To:** Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>**Subject:** [EXTERNAL] R30-03300014-2021-Law Compressor Station

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <andy.gates@bhegts.com>

Wed, Sep 15, 2021 at 7:26 AM

Hi Andy,  
Carrie sent you a request for a conference call this morning.

Thanks,  
Beena  
[Quoted text hidden]

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Sep 15, 2021 at 8:23 AM

I got the invitation and will talk to you then – thanks!

[Quoted text hidden]

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Fri, Sep 17, 2021 at 1:51 PM

Hello Beena,

We will not be able to respond today and, as discussed on Wednesday, we are asking for more time to respond. We will provide additional input by Thursday, Sept. 23.

Thank you,

**Andy Gates**  
Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)

[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)

*(Please note new email address)*



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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Fri, Sep 17, 2021 at 1:54 PM

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Tue, Sep 28, 2021 at 9:44 AM

Hi Andy,  
Any updates regarding comment # 4?

[Quoted text hidden]

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Tue, Sep 28, 2021 at 10:39 AM

Hi Beena,

I apologize for the delay in providing a response. We are still developing it and will provide it as soon as possible; it's going through my management's review now.

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Tue, Sep 28, 2021 at 10:59 AM

Thank you for the update.

[Quoted text hidden]

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**5 attachments**



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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Tue, Sep 28, 2021 at 12:28 PM

10/7/21, 2:20 PM

State of West Virginia Mail - R30-03300014-2021-Law Compressor Station

FYI

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Modi, Beena J &lt;beena.j.modi@wv.gov&gt;

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**R30-03300014-2021-Law Compressor Station**

17 messages

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: andy.gates@dominionenergy.com

Tue, Aug 17, 2021 at 5:58 PM

Hi Andy,  
Please review the attached files and let me know your comments by 8/20.

Thank you,

Beena Modi

---

**2 attachments** **DP factsheet 2021.doc**  
109K **DP permit 2021.docx**  
301K

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <Beena.J.Modi@wv.gov>

Fri, Aug 20, 2021 at 2:44 PM

Hello Beena –

Thank you for giving us the opportunity to review this!

I have a few comments and requests:

1. The old emergency air compressor (CPR02) has been permanently removed from the facility and replaced with an all-electric system. The unit wasn't included on Attachments D or E or the potential emissions calculations of the renewal application, but I did inadvertently leave the flow diagram for that unit in the package. All of the conditions specifically associated with that unit should be removed from the draft permit.
2. Please included NSPS Subpart OOOOa in the permit shield. There is a statement in the application that you can use for the shield.
3. Thank you for removing the SO2 and H2S limits and associated sampling that do not apply to this facility – I appreciate that.
4. Please delete condition 7.1.4.b. These are JJJJ-certified engines and compliance is maintained by operating them in accordance with condition 7.2.1.

Let me know if you have questions about these or would like to discuss. I'll be out of the office most of next week but should still be able to respond/discuss.

**Andy Gates**  
Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)

[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)

*(Please note new email address)*



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**From:** Modi, Beena J <[beena.j.modi@wv.gov](mailto:beena.j.modi@wv.gov)>  
**Sent:** Tuesday, August 17, 2021 5:58 PM  
**To:** Andy Gates (Gas Transmission - 2) <[andy.gates@dominionenergy.com](mailto:andy.gates@dominionenergy.com)>  
**Subject:** [EXTERNAL] R30-03300014-2021-Law Compressor Station

**THIS MESSAGE IS FROM AN EXTERNAL SENDER.**

Look closely at the **SENDER** address. Do not open **ATTACHMENTS** unless expected. Check for **INDICATORS** of phishing. Hover over **LINKS** before clicking. [Learn to spot a phishing message](#)

\*\*\*This is an EXTERNAL email that was NOT sent from Dominion Energy. Are you expecting this message? Are you expecting a link or attachment? DO NOT click links or open attachments until you verify them\*\*\*

[Quoted text hidden]

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

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**Modi, Beena J** <[beena.j.modi@wv.gov](mailto:beena.j.modi@wv.gov)>  
To: Carrie McCumbers <[carrie.mccumbers@wv.gov](mailto:carrie.mccumbers@wv.gov)>

Fri, Aug 20, 2021 at 2:50 PM

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**McCumbers, Carrie** <[carrie.mccumbers@wv.gov](mailto:carrie.mccumbers@wv.gov)>  
To: "Modi, Beena J" <[beena.j.modi@wv.gov](mailto:beena.j.modi@wv.gov)>

Mon, Aug 23, 2021 at 7:14 AM

I'm okay with comments #1 and #2. Comment #3 doesn't require any additional changes to the permit. For comment #4, I'm not sure I understand his justification for removal. They have a catalyst and condition 7.1.4.b is for engines with a catalyst. I didn't see anything that says that it doesn't apply to certified engines. Do you understand why it can be removed?

For changes made for comments #1 and #4 (if you make this change), you will need to include the change in the Fact Sheet. For comment #3, you will need to add these two regulations to the non-applicable requirements section in the fact sheet. I would like to see the revised permit and fact sheet once you make the changes and resolve the question regarding comment #4.

Thanks,  
Carrie  
[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Mon, Aug 23, 2021 at 7:19 AM

Thank you, Carrie! will do!  
[Quoted text hidden]

---

**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <Beena.J.Modi@wv.gov>

Mon, Aug 23, 2021 at 9:37 AM

Hello Beena –

I may have mis-spoken in my request #4 below – we are looking into this and I am trying to confirm that there is an automatic shut-off if the catalyst temperature gets too high on the emergency engines. I will follow up once I'm sure.

**Andy Gates**  
Environmental Consultant  
BHE GT&S, LLC

6603 West Broad Street  
Richmond, Virginia 23230  
804-389-1340

[www.bhegts.com](http://www.bhegts.com)

[andy.gates@bhegts.com](mailto:andy.gates@bhegts.com)

*(Please note new email address)*



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**From:** Gates, Andy (BHE GT&S)  
**Sent:** Friday, August 20, 2021 2:45 PM  
**To:** Modi, Beena J <[Beena.J.Modi@wv.gov](mailto:Beena.J.Modi@wv.gov)>  
**Subject:** RE: [EXTERNAL] R30-03300014-2021-Law Compressor Station

Hello Beena –

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Mon, Aug 23, 2021 at 9:45 AM

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: andy.gates@dominionenergy.com

Mon, Aug 23, 2021 at 9:48 AM

Thank you, Andy.

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: andy.gates@dominionenergy.com

Wed, Sep 1, 2021 at 12:55 PM

Hi Andy,  
Is there any updates on request #4?

Thanks,

Beena

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Sep 1, 2021 at 2:02 PM

Hello Beena -

We're still looking into this. I will get back to you soon.

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Wed, Sep 1, 2021 at 2:03 PM

Thank you

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Thu, Sep 2, 2021 at 9:37 AM

[Quoted text hidden]

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**Gates, Andy (BHE GT&S)** <Andy.Gates@bhegts.com>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Sep 8, 2021 at 2:54 PM

Beena,

We have reviewed this and believe that draft condition 7.1.4.b. is not an applicable requirement. This provision did not appear in the General Permit G60-C under which this emergency generator was originally permitted and installed. As I said in an earlier email, this is a certified emergency generator engine. Compliance is maintained by maintaining the engine in accordance with its certification and by complying with the monitoring requirements for the catalytic oxidation control device in draft condition 7.2.1.

Please delete draft condition 7.1.4.b.

I believe those are all of the comments we have right now.

Thank you,

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Wed, Sep 8, 2021 at 2:57 PM

Thank you, Andy

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: Carrie McCumbers <carrie.mccumbers@wv.gov>

Wed, Sep 8, 2021 at 2:57 PM

[Quoted text hidden]

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**McCumbers, Carrie** <carrie.mccumbers@wv.gov>  
To: "Modi, Beena J" <beena.j.modi@wv.gov>

Wed, Sep 8, 2021 at 4:07 PM

Beena,

Although the engine was registered under G60-C, they are now subject to G60-D. You could ask Jerry Williams if the engines would be subject to G60-D, condition 5.1.5.d if they have a catalyst, but the engines are certified under 40 CFR 60 Subpart JJJJ. Such as, if the engines are certified, are they still subject to the catalyst requirements in the general permit if they are not required by the regulation to install a catalyst to demonstrate compliance.

Thanks,

Carrie

[Quoted text hidden]

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**Modi, Beena J** <beena.j.modi@wv.gov>  
To: "McCumbers, Carrie" <carrie.mccumbers@wv.gov>

Wed, Sep 8, 2021 at 4:09 PM

Ok, thank you, Carrie

[Quoted text hidden]



BHE GT&S, LLC  
6603 West Broad Street  
Richmond, VA 23230

January 11, 2021

BY ELECTRONIC DELIVERY  
DEPAirQualityPermitting@wv.gov

Laura M. Crowder  
Director, Division of Air Quality  
WVDEP  
601 57th Street, SE  
Charleston, WV 25304

RE: Eastern Gas Transmission and Storage, Inc. – Title V Renewal Application  
Law Compressor Station – R30-03300014

Dear Ms. Crowder:

The renewal application for the Title V permit for Eastern Gas Transmission and Storage, Inc.'s<sup>1</sup> Law Compressor Station is attached. In accordance with WVDEP instructions on your website, only this electronic submittal will be made unless otherwise instructed.

If you need any additional information, please contact Andy Gates at (804) 389-1340 or [andy.gates@dominionenergy.com](mailto:andy.gates@dominionenergy.com)<sup>2</sup>.

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Gangle".

Richard B. Gangle  
Director Environmental Services

Attachment: Law Station Title V Renewal Application Package

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<sup>1</sup> As of November 1, 2020, Dominion Energy sold certain companies including Dominion Energy Transmission, Inc. to Berkshire Hathaway Energy Gas Transmission and Storage (BHE GT&S) Company. Dominion Energy Transmission, Inc. has changed its name to Eastern Gas Transmission and Storage, Inc.

<sup>2</sup> Please note that during a transition period, employees of the BHE GT&S unit will continue to utilize a Dominion Energy email address; however, BHE GT&S is not affiliated with Dominion Energy in any way. Any inferences with respect to the BHE GT&S use of a Dominion Energy email address should be disregarded, as the sender is no longer affiliated with Dominion Energy.

**LAW COMPRESSOR STATION  
EASTERN GAS TRANSMISSION AND STORAGE, INC.  
APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL  
TITLE V OPERATING PERMIT NO: R30-03300014**

**Eastern Gas Transmission and Storage, Inc.**  
Law Compressor Station  
Route 90, P.O. Box 190  
Mc Whorter, WV 26401

**JANUARY 2021**

**EASTERN GAS TRANSMISSION AND STORAGE, INC.  
LAW COMPRESSOR STATION**

**TITLE V PERMIT RENEWAL APPLICATION**

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Section 2: Title V Renewal Permit Application – General Forms

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Attachment A: Area Map

Attachment B: Plot Plan

Attachment C: Process Flow Diagrams

Attachment D: Title V Equipment Table

Attachment E: Emission Unit Forms

Attachment G: Air Pollution Control Device Form

**\*\*Note:** There are no Attachments F or H for this permit application.



## **SECTION 1**

### Introduction

## **INTRODUCTION:**

Law Station is a natural gas compressor station used to compress natural gas for Eastern Gas Transmission and Storage, Inc.'s transmission pipeline system in West Virginia. Law Station is in Good Hope, WV.

Law Station has the potential to emit in excess of 100 tons per year of nitrogen oxides (NO<sub>x</sub>) and 100 tons per year of volatile organic compounds (VOCs). The station is classified as a major stationary source under the West Virginia Department of Environmental Protection (WVDEP) Regulation (45 CSR Part 30) and is subject to the Title V Operating Permit provisions of Part 30. Law Station is also an area source of hazardous air pollutants (HAPs) since the potential to emit is less than 10 tons per year for individual HAPs and less than 25 tons per year of combined HAPs.

Law Station was originally issued a Title V Operating Permit (Permit No: R30-03300014-2006) in 2006 that has been subsequently renewed. Law Station is also subject to the underlying State Operating Permit (Rule 13 Permit No: R13-2963) and General Permit (Permit No: G60-C041). The Title V operating permit is for the operation of two (2) 660 hp natural gas fired reciprocating engines (EN01 and EN02), one (1) glycol dehydrator system (DEHY02) with flare (F1), one (1) dehydration unit reboiler (RBR02), two (2) 192.5 hp emergency generators (EG01 and EG02), and seven (7) above ground storage tanks of various sizes (TK01, TK02, and TK04 - TK08).

The last Title V renewal application was submitted in 2015, with the Title V Operating Permit Renewal being issued on July 12, 2016, with an expiration date of July 12, 2021.

## **PROCESS DESCRIPTION**

Law Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 and EN02) at the facility receive natural gas flowing through a valve on the pipeline and recompresses that natural gas in order to further transport the natural gas through the pipeline system. Prior to exiting the facility through the pipeline, the compressed natural gas is processed by the dehydration unit (DEHY02). The dehydration unit removes moisture and impurities from the gas stream. Emergency backup power is supplied by emergency generators (EG01 and EG02).

The dehydration process begins with the compressed natural gas entering the unit and then being passed through a triethylene glycol dehydration system consisting of a contactor bed, a reboiler (RBR02), and associated equipment. As a result of this process, the natural gas is stripped of moisture and impurities, along with a small amount of hydrocarbons. The wet gas enters the contactor where moisture and some hydrocarbons are absorbed into the lean glycol. The glycol, which has become rich with absorbed moisture and hydrocarbons, is regenerated in the still column (DEHY02) using the heat generated from the natural gas-fired reboiler (RBR02) to liberate the moisture and hydrocarbon vapors. The regenerator vapors are vented to the flare (F1) to combust the hydrocarbons; thereby, reducing overall emissions and odor. The flare is permitted with a destruction efficiency of 95%. The compressed, dehydrated gas then enters the pipeline.

The following equipment is located at the Law Station:

Two (2) 660 hp Cooper GMXE-8 natural gas-fired reciprocating engines/integral compressors

- Emission unit ID: EN01 and EN02
- Emission point ID: EN01 and EN02

Two (2) 192.5 hp Cummins GGLA 7965803 emergency generators

- Emission unit ID: EG01 and EG02
- Emission point ID: EG01 and EG02

One (1) 0.771 MMBtu/hr Cameron natural gas-fired dehydration unit reboiler

- Emission unit ID: RBR02
- Emission point ID: RBR02

One (1) 9 MMscf/day dehydration unit/still column

- Emission unit ID: DEHY02
- Emission point ID: DEHY02

One (1) 4.0 MMBtu/hr dehydration unit controlled flare

- Emission unit ID: F1
- Emission point ID: F1

One (1) 4200-gallon vertical aboveground lube oil storage tank

- Emission unit ID: TK01
- Emission point ID: TK01

One (1) 4200-gallon vertical aboveground lube oil storage tank

- Emission unit ID: TK02
- Emission point ID: TK02

One (1) 1000-gallon vertical aboveground used oil storage tank

- Emission unit ID: TK04
- Emission point ID: TK04

One (1) 4200-gallon vertical aboveground produced fluids storage tank

- Emission unit ID: TK05
- Emission point ID: TK05

One (1) 500 gallon vertical aboveground wastewater storage tank

- Emission unit ID: TK06
- Emission point ID: TK06

One (1) 1000 gallon horizontal aboveground triethylene glycol storage tank

- Emission unit ID: TK07
- Emission point ID: TK07

One (1) 2000 gallon horizontal aboveground ethylene glycol storage tank

- Emission unit ID: TK08
- Emission point ID: TK08

## **SECTION 2**

Title V Renewal Permit Application -  
General Forms



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION**

**DIVISION OF AIR QUALITY**

601 57<sup>th</sup> Street SE

Charleston, WV 25304

Phone: (304) 926-0475

[www.dep.wv.gov/daq](http://www.dep.wv.gov/daq)

**INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS**

**Section 1: General Information**

<b>1. Name of Applicant (As registered with the WV Secretary of State's Office):</b> Eastern Gas Transmission and Storage, Inc.	<b>2. Facility Name or Location:</b> Law Station
<b>3. DAQ Plant ID No.:</b>  0 3 3 — 0 0 0 1 4	<b>4. Federal Employer ID No. (FEIN):</b>  5 5 0 6 2 9 2 0 3
<b>5. Permit Application Type:</b>  <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application  When did operations commence? 1973 What is the expiration date of the existing permit? 07/12/2021	
<b>6. Type of Business Entity:</b>  <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Governmental Agency <input type="checkbox"/> LLC <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership	<b>7. Is the Applicant the:</b>  <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both  If the Applicant is not both the owner and operator, please provide the name and address of the other party.  _____ _____ _____
<b>8. Number of onsite employees:</b>  Usually unmanned	
<b>9. Governmental Code:</b>  <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> District government owned and operated; 5	
<b>10. Business Confidentiality Claims</b>  Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.	

<b>11. Mailing Address</b>		
<b>Street or P.O. Box:</b> 925 White Oaks Blvd.		
<b>City:</b> Bridgeport	<b>State:</b> WV	<b>Zip:</b> 26330
<b>Telephone Number:</b> (681) 842-3000	<b>Fax Number:</b> (681) 842-3323	

<b>12. Facility Location</b>		
<b>Street:</b> Two Lick Road	<b>City:</b> Good Hope	<b>County:</b> Harrison
<b>UTM Easting:</b> 545.88 km	<b>UTM Northing:</b> 4,335.35 km	<b>Zone:</b> <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
<b>Directions:</b> From Clarksburg, take Route 19 South through Good Hope for 11 miles. Turn right across iron bridge onto Two Lick Road. Go 1.1 miles then turn right through gate. Go 0.3 miles to station at top of hill.		
<b>Portable Source?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>Is facility located within a nonattainment area?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, for what air pollutants?</b>
<b>Is facility located within 50 miles of another state?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>If yes, name the affected state(s).</b> Pennsylvania Ohio
<b>Is facility located within 100 km of a Class I Area<sup>1</sup>?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>If no, do emissions impact a Class I Area<sup>1</sup>?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>If yes, name the area(s).</b> Dolly Sods Wilderness Area Otter Creek Wilderness Area
<small><sup>1</sup> Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.</small>		

<b>13. Contact Information</b>		
<b>Responsible Official:</b> John M. Lamb		<b>Title:</b> Vice President, Pipeline Operations
<b>Street or P.O. Box:</b> 925 White Oaks Blvd.		
<b>City:</b> Bridgeport	<b>State:</b> WV	<b>Zip:</b> 26330
<b>Telephone Number:</b> (681) 842-3000	<b>Fax Number:</b> (681) 842-3323	
<b>E-mail address:</b> john.m.lamb@dominionenergy.com		
<b>Environmental Contact:</b> Andy Gates		<b>Title:</b> Environmental Consultant
<b>Street or P.O. Box:</b> 6603 W. Broad Street		
<b>City:</b> Richmond	<b>State:</b> VA	<b>Zip:</b> 23230
<b>Telephone Number:</b> (804) 389-1340	<b>Fax Number:</b> NA	
<b>E-mail address:</b> andy.gates@dominionenergy.com		
<b>Application Preparer:</b> Andy Gates		<b>Title:</b> Environmental Consultant
<b>Company:</b> BHE GT&S, LLC		
<b>Street or P.O. Box:</b> 6603 W. Broad Street		
<b>City:</b> Richmond	<b>State:</b> VA	<b>Zip:</b> 23230
<b>Telephone Number:</b> (804) 389-1340	<b>Fax Number:</b> NA	
<b>E-mail address:</b> andy.gates@dominionenergy.com		



**14. Facility Description**

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Natural Gas Compressor Station	N/A	486120	4922

**Provide a general description of operations.**

The Law Station is a compressor facility that services a natural gas pipeline system. The purpose of the facility is to recompress natural gas flowing through a pipeline for transportation. The reciprocating engines (EN01 and EN02) at the facility receive natural gas from a valve on a pipeline and compress it to enable further transportation in the pipeline.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

**Section 2: Applicable Requirements**

<b>18. Applicable Requirements Summary</b>	
Instructions: Mark all applicable requirements.	
<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO <sub>x</sub> Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO <sub>x</sub> Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO <sub>2</sub> Trading Program (45CSR41)	

## 19. Non Applicability Determinations

**List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.**

40 CFR Subpart JJJJ – The compressor engines (EN01 and EN02) are not subject to this subpart since they were manufactured in 1973, before the applicability date.

40 CFR 60 Subpart OOOO – This subpart does not apply to the facility since the facility is a gathering facility that does not have tanks, gas wells, centrifugal compressors, reciprocating compressors, and/or pneumatic controllers constructed, modified, or reconstructed after August 23, 2011.

40 CFR 60, Subpart OOOOa – This facility has no equipment with applicable requirements under Subpart OOOOa. This subpart applies to equipment installed after September 18, 2015. The facility has no affected emissions units that have been installed after the applicable Subpart OOOOa effective date.

40 CFR 63 Subpart HHH – This subpart does not apply to the facility since the facility is not a transmission or storage station and is not a major source of HAPs.

40 CFR 63 Subpart DDDDD – The reboiler (RBR02) is not subject to this subpart since it is exempt by §63.7491(h) and facility is not major source of HAPs.

40 CFR 63 Subpart JJJJJ – The reboiler (RBR02) is not applicable to this subpart since it is considered a “process heater,” which is excluded from the definition of “boiler”.

40 CFR 64 CAM – The dehy unit (DEHY02) is not applicable to CAM since the unit is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990 (exemption per 64.2(b)(1)(i)). In addition, since the R13-2963 permit specifies a “continuous compliance determination method” condition (e.g. continuously monitoring the flare using a thermocouple to detect the presence of a flame) which was included in the Title V permit, CAM does not apply (exemption per 64.2(b)(1)(vi)).

☒ Permit Shield

## 20. Facility-Wide Applicable Requirements

**List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).**

45 CSR 6-3.1 – Open burning prohibited (TV 3.1.1)

45 CSR 6-3.2 – Open burning exemption (TV 3.1.2)

40 CFR Part 61 and 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)

State Only: 45 CSR 4-3.1 – No objectionable odors (TV 3.1.4)

45 CSR 11-5.2 – Standby plans for emergency episodes (TV 3.1.5)

WV Code 22-5-4 (a) (14) – The annual emission inventory reporting (TV 3.1.6)

40 CFR Part 82 Subpart F – Ozone depleting substances (TV 3.1.7)

40 CFR Part 68 – Risk Management Plan (TV 3.1.8)

45 CSR 13 – Operation and maintenance of air pollution control equipment (TV 3.1.9; R13-2963 4.1.3)

State Only: 45 CSR 17-3.1 – Fugitive particulate matter (TV 3.1.10)

☒ Permit Shield

**For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

45 CSR 6-3.1 – The permittee shall prohibit open burning (TV 3.1.1)

45 CSR 6-3.2 – The permittee shall notify if open burning occurs (TV 3.1.2)

40 CFR Part 61 and 45 CSR 34 – Prior to demolition/construction buildings will be inspected for asbestos (TV 3.1.3)

45 CSR 4 – Permittee shall maintain records of all odor complaints received (TV 3.1.4)

45 CSR 11 – Upon request by the Secretary, the permittee shall prepare a standby plan (TV 3.1.5)

WV 22-5-4 – The permittee shall submit annual emission inventory reports (TV 3.1.6)

40 CFR Part 82 Subpart F – The permittee will prohibit maintenance, service, or repair of appliances containing Ozone depleting substances (TV 3.1.7)

40 CFR Part 68 – Should the permittee become subject to 40 CFR Part 68, a RMP shall be submitted (TV 3.1.8)

45 CSR 13 – The permittee shall install, maintain, and operate control equipment properly for minimizing emissions (TV 3.1.9; R13-2963 4.1.3)

45 CSR 17 – The permittee will limit fugitive emissions from the facility by burning only pipeline quality natural gas (TV 3.1.10)

WV Code 22—5-4(a)(14-15) and 45 CSR 13 – Testing requirements (TV 3.3.1)

45 CSR 30 – Recordkeeping Requirements (TV 3.4)

45 CSR 30 – Reporting Requirements (TV 3.5)

45 CSR 30 - The permittee shall submit a certified emissions statement and pay fees annually (TV 3.5.4)

45 CSR 30 - The permittee shall submit semi-annual monitoring reports (TV 3.5.6)

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

<b>21. Active Permits/Consent Orders</b>		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
G60-C041	10/13/2011	N/A
R13-2963	04/03/2013	N/A

<b>22. Inactive Permits/Obsolete Permit Conditions</b>		
Permit Number	Date of Issuance	Permit Condition Number
N/A		

**Section 3: Facility-Wide Emissions**

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	38.62
Nitrogen Oxides (NO <sub>x</sub> )	259.40
Lead (Pb)	N/A
Particulate Matter (PM <sub>2.5</sub> ) <sup>1</sup>	1.84
Particulate Matter (PM <sub>10</sub> ) <sup>1</sup>	1.84
Total Particulate Matter (TSP)	2.33
Sulfur Dioxide (SO <sub>2</sub> )	0.03
Volatile Organic Compounds (VOC)	100.70
Hazardous Air Pollutants <sup>2</sup>	Potential Emissions
Acetaldehyde	0.37
Acrolein	0.37
Benzene	0.27
Ethylbenzene	0.11
Formaldehyde	2.64
Hexane	0.14
Toluene	0.48
Xylene	0.66
Regulated Pollutants other than Criteria and HAP	Potential Emissions

<sup>1</sup>PM<sub>2.5</sub> and PM<sub>10</sub> are components of TSP.

<sup>2</sup>For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Potentials-to-emit are based on currently operating equipment and permit limits as applicable and include fugitive VOC (including pigging and blowdowns).

**Section 4: Insignificant Activities**

<b>24. Insignificant Activities (Check all that apply)</b>	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO <sub>2</sub> lasers, used only on metals and other materials which do not emit HAP in the process.
<input type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO<sub>x</sub>, SO<sub>2</sub>, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.



<b>24. Insignificant Activities (Check all that apply)</b>	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

*Section 5: Emission Units, Control Devices, and Emission Points*

<b>25. Equipment Table</b>
Fill out the <b>Title V Equipment Table</b> and provide it as <b>ATTACHMENT D</b> .
<b>26. Emission Units</b>
For each emission unit listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Emission Unit Form</b> as <b>ATTACHMENT E</b> .
For each emission unit not in compliance with an applicable requirement, fill out a <b>Schedule of Compliance Form</b> as <b>ATTACHMENT F</b> .
<b>27. Control Devices</b>
For each control device listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Air Pollution Control Device Form</b> as <b>ATTACHMENT G</b> .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the <b>Compliance Assurance Monitoring (CAM) Form(s)</b> for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as <b>ATTACHMENT H</b> .

## Section 6: Certification of Information

### 28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

#### a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

#### b. Compliance Certification

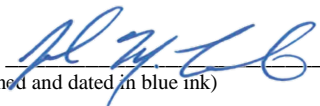
Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

#### Responsible official (type or print)

Name: John M. Lamb

Title: Vice President, Pipeline Operations

#### Responsible official's signature:

Signature: 

(Must be signed and dated in blue ink)

Signature Date: 1/8/2021

#### Note: Please check all applicable attachments included with this permit application:

☒ ATTACHMENT A: Area Map

☒ ATTACHMENT B: Plot Plan(s)

☒ ATTACHMENT C: Process Flow Diagram(s)

☒ ATTACHMENT D: Equipment Table

☒ ATTACHMENT E: Emission Unit Form(s)

☐ ATTACHMENT F: Schedule of Compliance Form(s)

☒ ATTACHMENT G: Air Pollution Control Device Form(s)

☐ ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

**All of the required forms and additional information can be found and downloaded from, the DEP website at [www.dep.wv.gov/dag](http://www.dep.wv.gov/dag), requested by phone (304) 926-0475, and/or obtained through the mail.**

## **Attachment A**

Area Map

# Eastern Gas Transmission and Storage, Inc.

Law Compressor Station  
Facility 033-00014



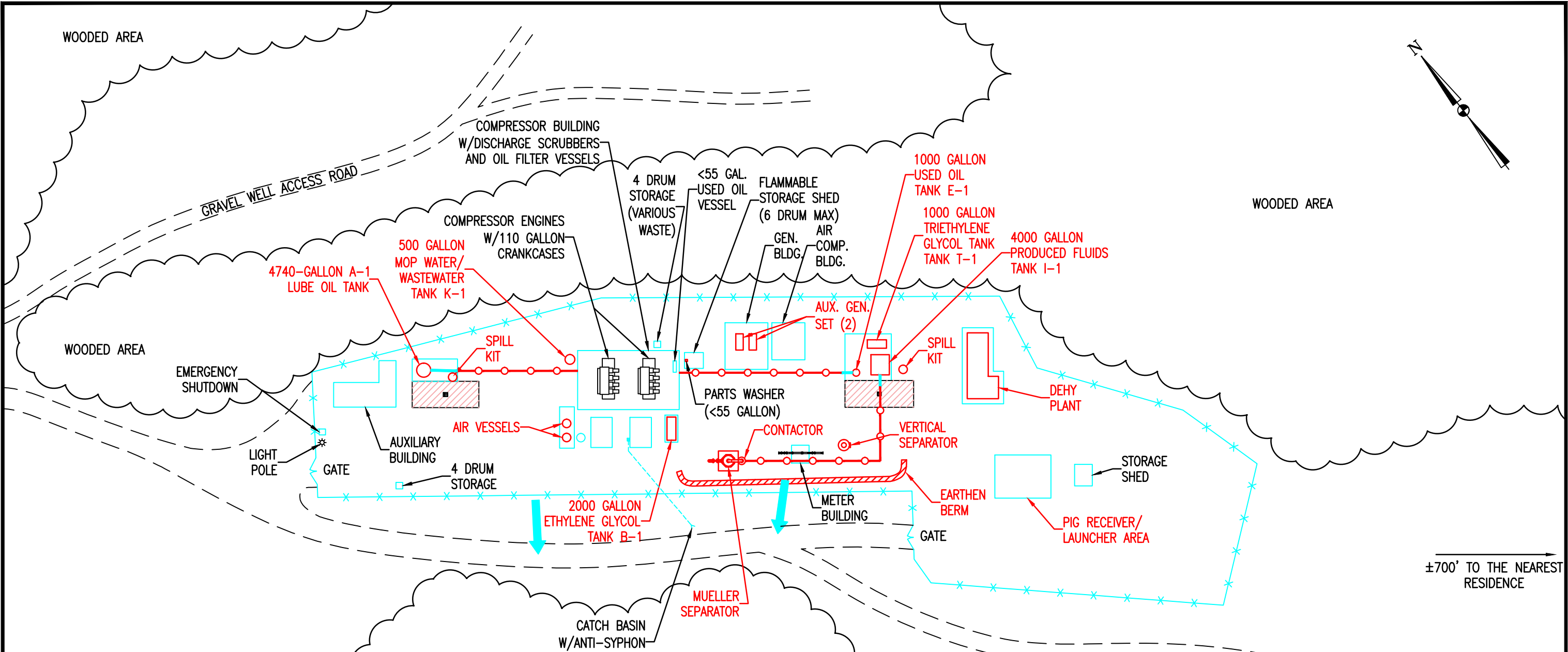
Google Earth

© 2020 Google

## **Attachment B**

Plot Plan





OIL CONTAINING MECHANICAL EQUIPMENT		
QUANTITY	MATERIAL	DESCRIPTION/LOCATION
2 @ 110 GAL. EA.	LUBE OIL	COMPRESSOR ENGINE CRANKCASE COMPRESSOR BUILDING
2672 GALLONS	PRODUCED FLUIDS	VERTICAL SEPARATOR YARD AREA
460 GALLONS	PRODUCED FLUIDS	MUELLER SEPARATOR YARD AREA
2 @ 56 GAL. EA.	LUBE OIL	ENGINE OIL FILTER VESSELS UNIT #1 UNIT #2 COMPRESSOR BUILDING
2 @ 109 GAL. EA.	PRODUCED FLUIDS	DISCHARGE SCRUBBERS UNIT #1 & UNIT #2 COMPRESSOR BUILDING

NOTE: THE NUMBER OF DRUMS ON SITE CAN VARY AND THE TYPE AND THEIR LOCATION CAN VARY DURING THE COURSE OF THE YEAR DEPENDENT UPON OPERATIONAL NEEDS.

NOTE: THE OIL PIPING RUNS SHOWN ON THIS DRAWING ARE APPROXIMATE. FOR MORE DETAIL REFER TO "AS-BUILT" DRAWINGS MAINTAINED IN DTI'S ENGINEERING AND DRAFTING DEPARTMENT.

SYM.	DATE	BY	REVISION DESCRIPTION	PRJ/TSK	APP.	SCALE	1" = 60'	DATE
6	08/09/18	JAL	ADDED (2) SPILL KITS, 4 DRUM STORAGE, STORAGE SHED, (2) AUX. GENERATORS, ETC			DRAWN	SE TECH	
5	11/03/2017	JAR	CHANGE LUBE OIL TANK A-2 TO TANK A-1 AND CHANGED CAPACITY TO 4740 GALLONS	71177.1.3		CHECKED		
4	04/25/2017	JAR	DELETED LUBE OIL TANK A-1			APP. FOR BID		
3	02/22/16	TBB	REVISED TANK A-1 & K-1; ADDED UNDEGROUND PIPING; REVISED DTI ADDRESS & PHONE #			APP. FOR CONST.		
2	11/04/14	TBB	SCALED, ADDED BAR SCALE, ADDED ADJACENT PROPERTIES, & REVISED NORTH ARROW			TOWN: JANE LEW, WV	COUNTY: HARRISON	

LEGEND:

—

ABOVE GROUND OIL CONTAINING PIPE

—○—○—○—○—

UNDERGROUND OIL CONTAINING PIPE

➡

FLOW DIRECTION

▨

TRUCK LOADING / UNLOADING AREA

±700' TO THE NEAREST RESIDENCE

Dominion Energy Transmission, Inc.  
925 White Oaks Blvd., Bridgeport, WV 26330  
(681) 842-3000

FOR: **LAW COMPRESSOR STATION**

TITLE: **ENVIRONMENTAL EMERGENCY SITE PLAN**

DIR: **DOCUMENTUM** GROUP: **PD** DWG. NO.: **X6102B** REV.: **6**

FILE: PRJ/TSK:

## **Attachment C**

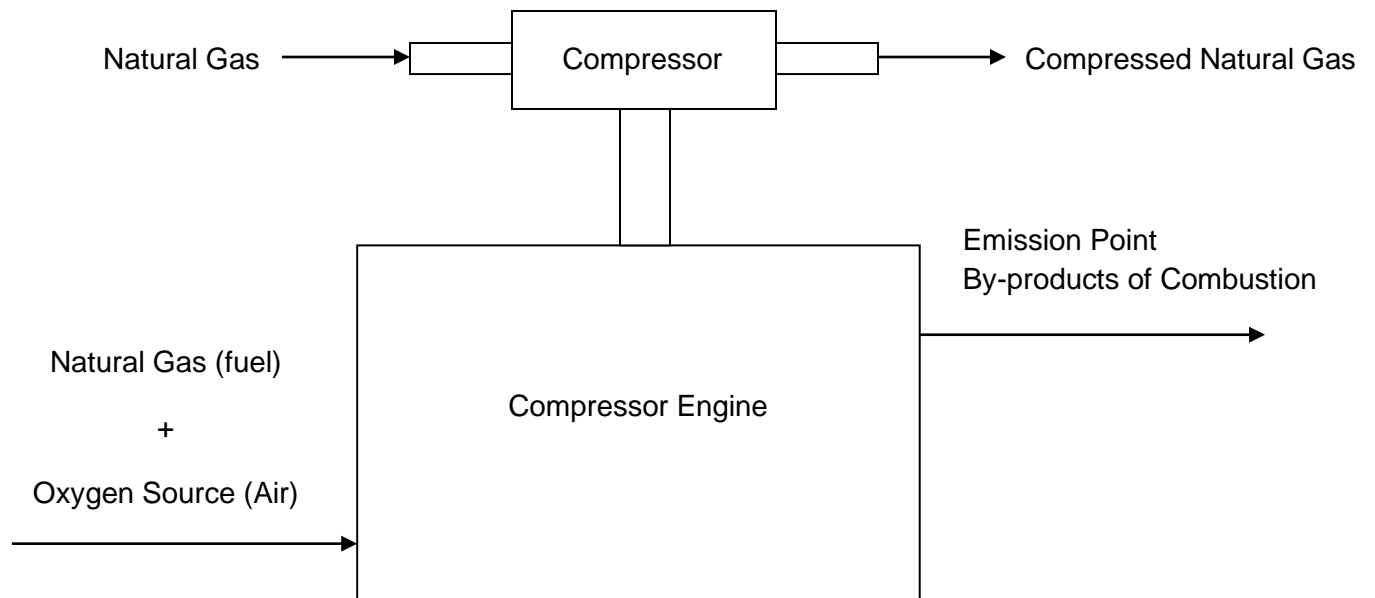
### Process Flow Diagrams



**Eastern Gas Transmission and Storage, Inc.**

**Law Compressor Station**

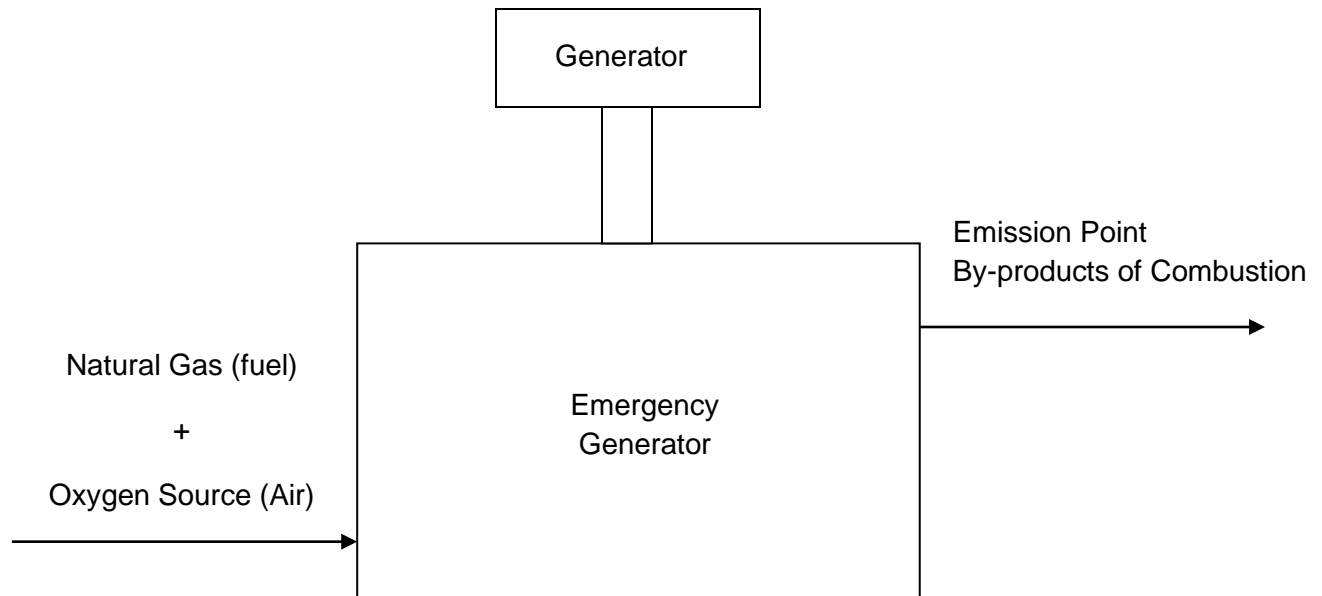
**Compressor Engines (EN01 and EN02) Process Flow Diagram**



**Eastern Gas Transmission and Storage, Inc.**

**Law Compressor Station**

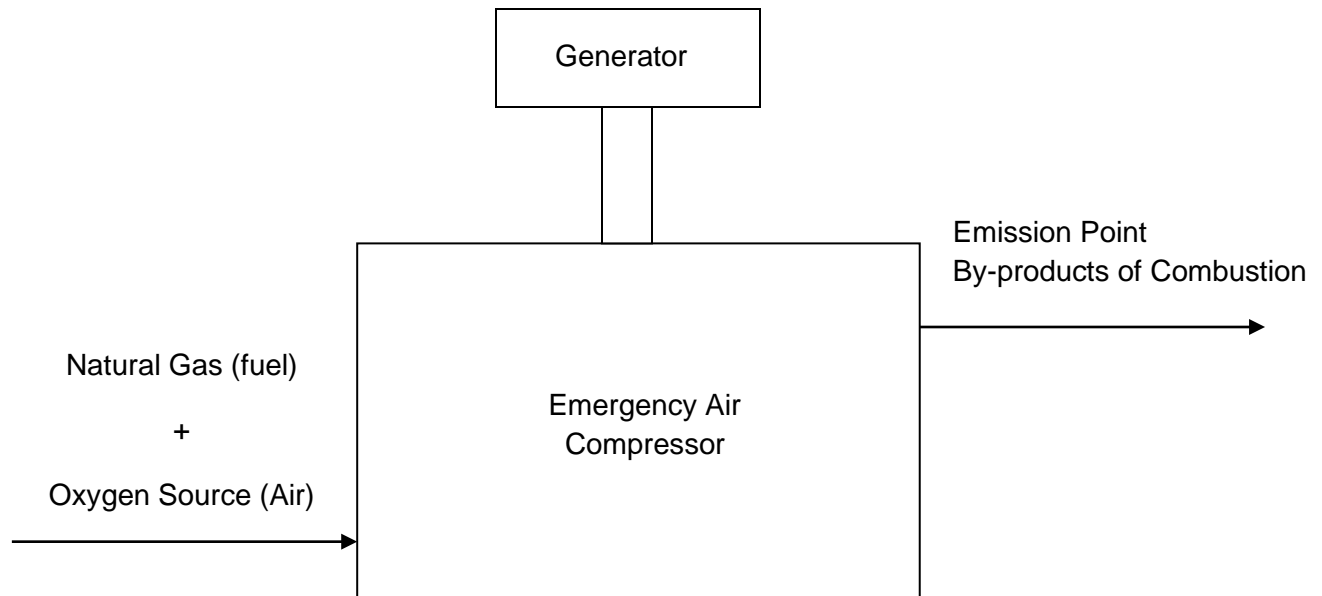
**Emergency Generators (EG01 and EG02) Process Flow Diagram**



**Eastern Gas Transmission and Storage, Inc.**

**Law Compressor Station**

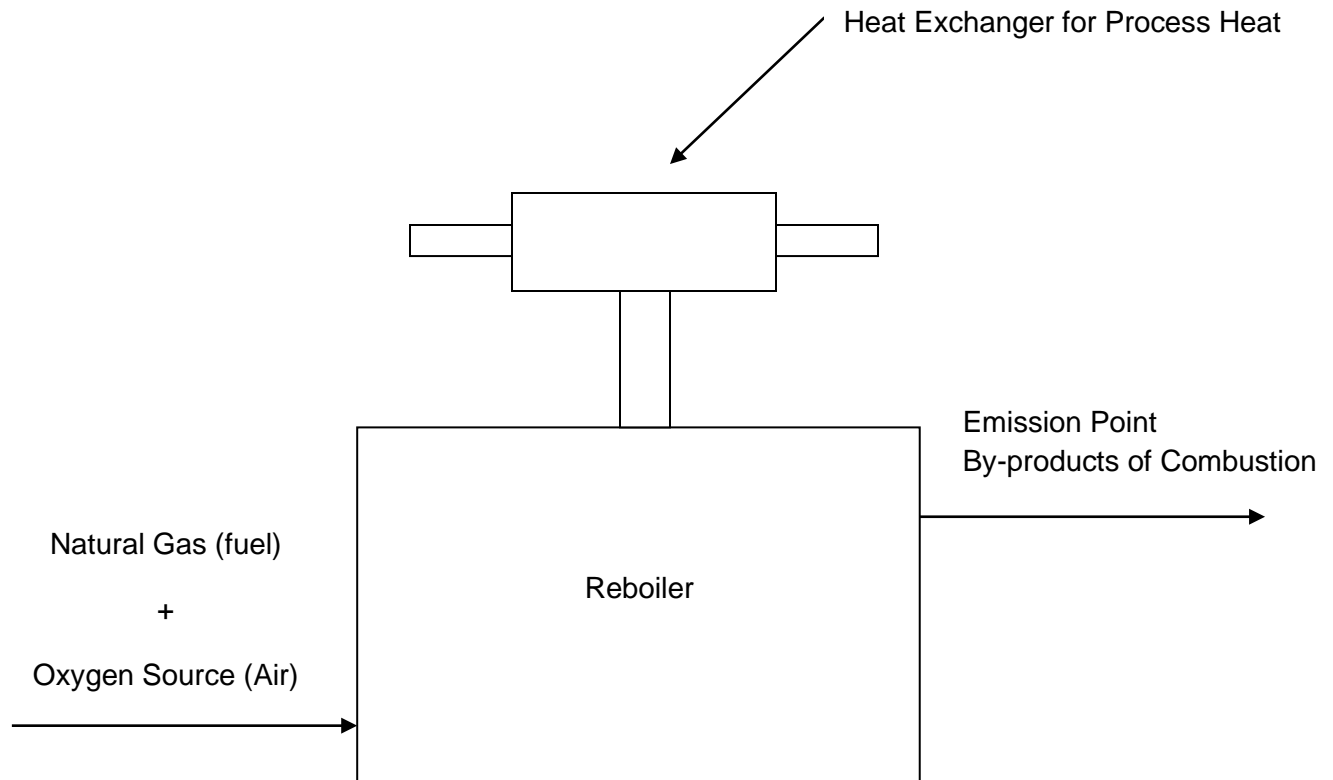
**Emergency Air Compressor (CPR02) Process Flow Diagram**



**Eastern Gas Transmission and Storage, Inc.**

**Law Compressor Station**

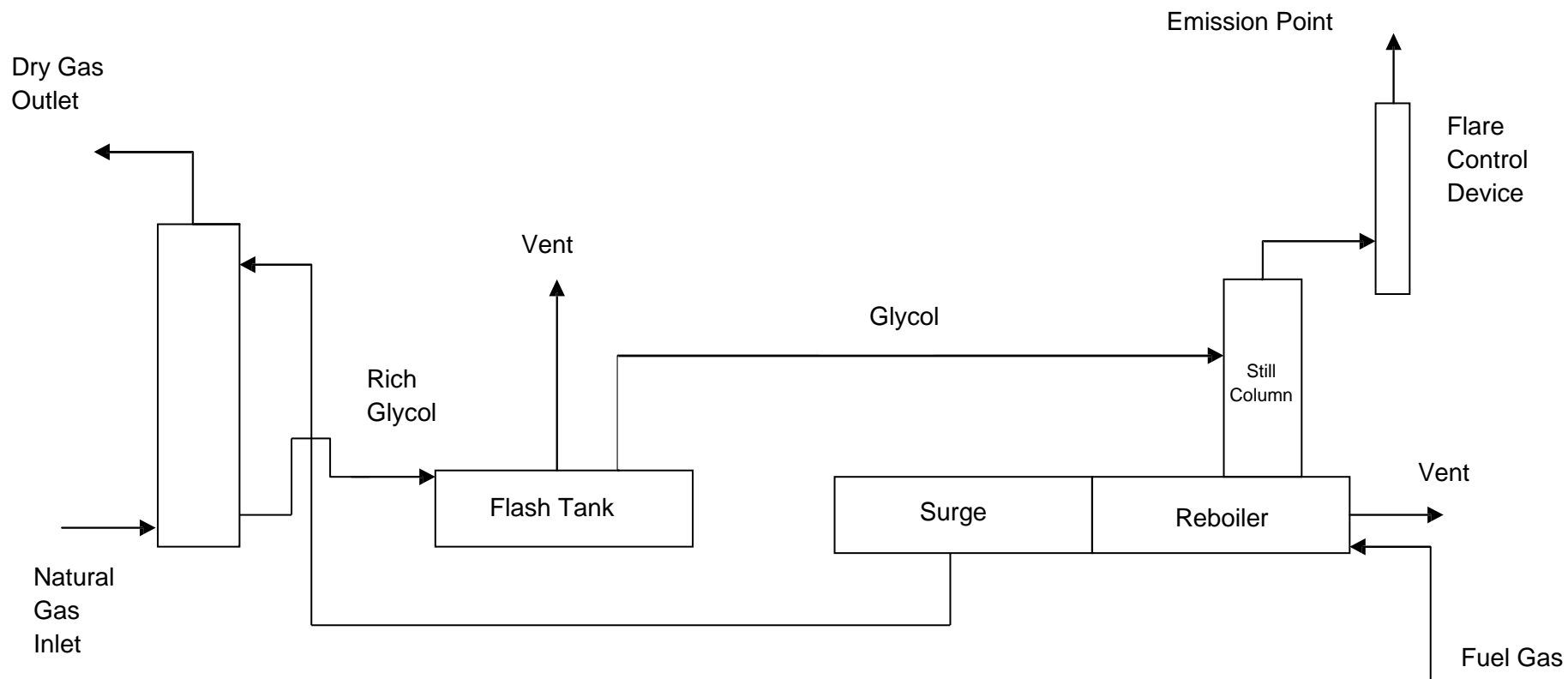
**Reboiler (RBR02) Process Flow Diagram**



**Eastern Gas Transmission and Storage, Inc.**

**Law Compressor Station**

**Dehydration Unit (F1, DEHY02, and RBR02) Process Flow Diagram**



## **Attachment D**

Title V Equipment Table

**ATTACHMENT D - Title V Equipment Table**  
**(includes all emission units at the facility except those designated as**  
**insignificant activities in Section 4, Item 24 of the General Forms)**

Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
EN01	N/A	EN01	Reciprocating Engine/Integral Compressor; Cooper GMXE-8	660 hp	1973
EN02	N/A	EN02	Reciprocating Engine/Integral Compressor; Cooper GMXE-8	660 hp	1973
EG01	N/A	EG01	Cummins GM8.1L	192.5 hp	2012
EG02	N/A	EG02	Cummins GM8.1L	192.5 hp	2012
DEHY02	F1	DEHY02	Dehydration Unit Still; Cameron	9 MMscf/day	2013
RBR02	N/A	RBR02	Dehydration Unit Boiler; Cameron	0.77 MMBtu/hr	2013
F1	N/A	F1	Dehydration Unit Flare; QTI, Q100	4.0 MMBtu/hr	2013
TK01	N/A	TK01	Vertical, aboveground tank containing lube oil	4,200 Gallons	1973
TK02	N/A	TK02	Vertical, aboveground tank containing lube oil	4,200 Gallons	1973
TK03	N/A	TK03	Horizontal, aboveground tank containing drip gas	2,000 Gallons	1989
TK04	N/A	TK04	Vertical, aboveground tank containing used oil	5,075 Gallons	1972
TK05	N/A	TK05	Vertical, aboveground tank containing produced fluids	4,200 Gallons	1973
TK06	N/A	TK06	Vertical, aboveground tank containing wastewater	500 Gallons	2003
TK07	N/A	TK07	Horizontal, aboveground tank containing triethylene glycol	1,000 Gallons	1973
TK08	N/A	TK08	Horizontal, aboveground tank containing ethylene glycol	2,000 Gallons	1986

<sup>1</sup>For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

## **Attachment E**

### Emission Unit Forms



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> EN01	<b>Emission unit name:</b> EN01 Reciprocating Engine/Integral Compressor	<b>List any control devices associated with this emission unit:</b> N/A
---	--	--

**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired reciprocating engine/integral compressor

<b>Manufacturer:</b> Cooper	<b>Model number:</b> GMXE-8	<b>Serial number:</b> 46692
--------------------------------	--------------------------------	--------------------------------

<b>Construction date:</b>	<b>Installation date:</b> 1973	<b>Modification date(s):</b> N/A
---------------------------	-----------------------------------	-------------------------------------

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
660 hp

<b>Maximum Hourly Throughput:</b> 0.0054 MMscf/hr	<b>Maximum Annual Throughput:</b> 47.3 MMscf/yr	<b>Maximum Operating Schedule:</b> 8,760 hrs/yr
--	--	--

### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b> 660 hp	<b>Type and Btu/hr rating of burners:</b> 8,200 Btu/hp-hr 0.0054 MMscf/hr
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Pipeline quality natural gas  
 - Maximum hourly fuel usage = 0.0054 MMscf/hr  
 - Maximum annual fuel usage = 47.3 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO <sub>x</sub> )	29.5	129.4
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.21	0.91
Particulate Matter (PM <sub>10</sub> )	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.15
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.04	0.18
Acrolein	0.04	0.18
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.08	0.35
Hexane	< 0.01	0.01
Toluene	0.01	0.02
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b> <ul style="list-style-type: none"> <li>- CO, NO<sub>x</sub>, and VOC Emission Factors based on manufacturer's information.</li> <li>- PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.</li> </ul>		

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1 and 6.1.4)  
40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.3 and 6.1.5)  
40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 6.2.1)  
40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 6.4.1, 6.4.2, 6.4.3, and 6.4.4)

  X   Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first (TV 6.1.1)  
40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.4)  
40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.3 and 6.1.5)  
40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 6.2.1, 6.4.1, 6.4.2, 6.4.3, and 6.4.4)

**Are you in compliance with all applicable requirements for this emission unit?**   X  Yes     No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> EN02	<b>Emission unit name:</b> EN02 Reciprocating Engine/Integral Compressor	<b>List any control devices associated with this emission unit:</b> N/A
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired reciprocating engine/integral compressor

<b>Manufacturer:</b> Cooper	<b>Model number:</b> GMXE-8	<b>Serial number:</b> 46693
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<b>Construction date:</b>	<b>Installation date:</b> 1973	<b>Modification date(s):</b> N/A
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
660 hp

<b>Maximum Hourly Throughput:</b> 0.0054 MMscf/hr	<b>Maximum Annual Throughput:</b> 47.3 MMscf/yr	<b>Maximum Operating Schedule:</b> 8,760 hrs/yr
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 660 hp	<b>Type and Btu/hr rating of burners:</b> 8,200 Btu/hp-hr 0.0054 MMscf/hr
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Pipeline quality natural gas  
 - Maximum hourly fuel usage = 0.0054 MMscf/hr  
 - Maximum annual fuel usage = 47.3 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO <sub>x</sub> )	29.5	129.4
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.21	0.91
Particulate Matter (PM <sub>10</sub> )	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.15
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.04	0.18
Acrolein	0.04	0.18
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.08	0.35
Hexane	< 0.01	0.01
Toluene	0.01	0.02
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b> <ul style="list-style-type: none"> <li>- CO, NO<sub>x</sub>, and VOC Emission Factors based on manufacturer's information.</li> <li>- PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.</li> </ul>		

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1 and 6.1.4)  
40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.3 and 6.1.5)  
40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 6.2.1)  
40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 6.4.1, 6.4.2, 6.4.3, and 6.4.4)

  X   Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first (TV 6.1.1)  
40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.4)  
40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.3 and 6.1.5)  
40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 6.2.1, 6.4.1, 6.4.2, 6.4.3, and 6.4.4)

**Are you in compliance with all applicable requirements for this emission unit?**   X  Yes     No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> EG01	<b>Emission unit name:</b> Emergency Generator	<b>List any control devices associated with this emission unit:</b> NSCR – Non-Selective Catalytic Reduction
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired emergency auxiliary generator

<b>Manufacturer:</b> Cummins	<b>Model number:</b> GM8.1L (Engine) GGLA 7965803 (GenSet)	<b>Serial number:</b> I110250720
<b>Construction date:</b> 2011	<b>Installation date:</b> 2012	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

192.5 hp / 1800 rpm

<b>Maximum Hourly Throughput:</b> 1,667 cf/hr	<b>Maximum Annual Throughput:</b> 0.834 MMcf/yr	<b>Maximum Operating Schedule:</b> 500 hrs/yr
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 192.5 hp / 1800 rpm	<b>Type and Btu/hr rating of burners:</b> 1.667 MMBtu/hr
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Natural gas

- Maximum hourly fuel usage = 1,667 cf/hr
- Maximum annual fuel usage = 0.834 MMcf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.39	0.10
Nitrogen Oxides (NO <sub>x</sub> )	0.03	0.01
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.02	< 0.01
Particulate Matter (PM <sub>10</sub> )	0.02	< 0.01
Total Particulate Matter (TSP)	0.03	0.01
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.19	0.05
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	< 0.01	< 0.01
Acrolein	< 0.01	< 0.01
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.03	0.01
Toluene	< 0.01	< 0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <ul style="list-style-type: none"> <li>- CO, NO<sub>x</sub>, and VOC emission rates are based on manufacturer's emission data sheet.</li> <li>- All other emission rates are based on USEPA's AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, 7/00</li> </ul>		



**Applicable Requirements**

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

45 CSR 13 – Operate and maintain according to manufacturer (TV 7.1.1; G60-C041 5.1.1)  
45 CSR 13 – Emission limits (TV 7.1.2; G60-C041 5.1.2)  
45 CSR 13 – Maximum fuel consumption (TV 7.1.3; G60-C041 5.1.3)  
40 CFR Part 60 Subpart JJJJ – NSPS emission limits (TV 7.1.6; G60-C041 8.2.5)  
40 CFR Part 60 Subpart JJJJ – NSPS emergency definition; limitation on maintenance and readiness testing to 100 hrs/yr (TV 7.1.12; G60-C041 8.4.4)  
40 CFR Part 63 Subpart ZZZZ – RICE NESHAP as a new, emergency, spark ignition engine at an area source (40 CFR 63 Subpart ZZZZ)

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**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

45 CSR 13 – Record hours of operation and fuel consumption on a monthly basis; keep records for 5 years (TV 7.4.1; G60-C041 5.4.1)  
40 CFR Part 60 Subpart JJJJ – Purchase a certified engine to meet NSPS emission limits (G60-C041 8.4.1)  
40 CFR Part 60 Subpart JJJJ – Install non-resettable hour meter (G60-C041 8.3.8)  
40 CFR Part 60 Subpart JJJJ – Comply with all applicable monitoring, reports, and recordkeeping requirements (G60-C041 8.6.1)  
40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ

**Are you in compliance with all applicable requirements for this emission unit?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> EG02	<b>Emission unit name:</b> Emergency Generator	<b>List any control devices associated with this emission unit:</b> NSCR – Non-Selective Catalytic Reducer
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired emergency auxiliary generator

<b>Manufacturer:</b> Cummins	<b>Model number:</b> GM8.1L (Engine) GGLA 7965803 (GenSet)	<b>Serial number:</b> I110250721
<b>Construction date:</b> 2011	<b>Installation date:</b> 2012	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

192.5 hp / 1800 rpm

<b>Maximum Hourly Throughput:</b> 1,667 cf/hr	<b>Maximum Annual Throughput:</b> 0.834 MMcf/yr	<b>Maximum Operating Schedule:</b> 500 hrs/yr
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 192.5 hp / 1800 rpm	<b>Type and Btu/hr rating of burners:</b> 1.667 MMBtu/hr
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Natural gas  
 - Maximum hourly fuel usage = 1,667 cf/hr  
 - Maximum annual fuel usage = 0.834 MMcf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.39	0.10
Nitrogen Oxides (NO <sub>x</sub> )	0.03	0.01
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.02	< 0.01
Particulate Matter (PM <sub>10</sub> )	0.02	< 0.01
Total Particulate Matter (TSP)	0.03	0.01
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.19	0.05
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	< 0.01	< 0.01
Acrolein	< 0.01	< 0.01
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.03	0.01
Toluene	< 0.01	< 0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <ul style="list-style-type: none"> <li>- CO, NO<sub>x</sub>, and VOC emission rates are based on manufacturer's emission data sheet.</li> <li>- All other emission rates were based off of USEPA's AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, 7/00</li> </ul>		

**Applicable Requirements**

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

45 CSR 13 – Operate and maintain according to manufacturer (TV 7.1.1; G60-C041 5.1.1)  
45 CSR 13 – Emission limits (TV 7.1.2; G60-C041 5.1.2)  
45 CSR 13 – Maximum fuel consumption (TV 7.1.3; G60-C041 5.1.3)  
40 CFR Part 60 Subpart JJJJ – NSPS emission limits (TV 7.1.6; G60-C041 8.2.5)  
40 CFR Part 60 Subpart JJJJ – NSPS emergency definition; limitation on maintenance and readiness testing to 100 hrs/yr (TV 7.1.12; G60-C041 8.4.4)  
40 CFR Part 63 Subpart ZZZZ – RICE NESHAP as a new, emergency, spark ignition engine at an area source (40 CFR 63 Subpart ZZZZ)

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**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

45 CSR 13 – Record hours of operation and fuel consumption on a monthly basis; keep records for 5 years (TV 7.4.1; G60-C041 5.4.1)  
40 CFR Part 60 Subpart JJJJ – Purchase a certified engine to meet NSPS emission limits (G60-C041 8.4.1)  
40 CFR Part 60 Subpart JJJJ – Install non-resettable hour meter (G60-C041 8.3.8)  
40 CFR Part 60 Subpart JJJJ – Comply with all applicable monitoring, reports, and recordkeeping requirements (G60-C041 8.6.1)  
40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ

**Are you in compliance with all applicable requirements for this emission unit?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> DEHY02	<b>Emission unit name:</b> DEHY02 Dehydration Unit	<b>List any control devices associated with this emission unit:</b> F1
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Dehydration unit still column

<b>Manufacturer:</b> Cameron	<b>Model number:</b> 300/550	<b>Serial number:</b>
<b>Construction date:</b> 2013	<b>Installation date:</b> 2013	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

9 MMscf wet gas /day

<b>Maximum Hourly Throughput:</b> 9 MMscf wet gas /day	<b>Maximum Annual Throughput:</b> 3,285 MMscf wet gas/yr	<b>Maximum Operating Schedule:</b> 8760 hrs/yr
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> N/A	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Natural gas

- Maximum hourly wet gas throughput = 9 MMscf/day
- Maximum annual wet gas throughput = 3,285 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.02	0.09
Nitrogen Oxides (NO <sub>x</sub> )	0.12	0.50
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	< 0.01	< 0.01
Particulate Matter (PM <sub>10</sub> )	< 0.01	< 0.01
Total Particulate Matter (TSP)	< 0.01	< 0.01
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	2.43	10.64
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.040	0.177
Ethylbenzene	0.024	0.105
n-Hexane	0.026	0.115
Toluene	0.098	0.431
Xylenes	0.149	0.651
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>VOC and HAP emission rates for the dehydration unit were obtained from GRI GLYCalc V4.0 with a 95% destruction efficiency  NO<sub>x</sub>, CO, and VOC emission factors for the flare were obtained from Table 13.5-1 of AP-42</p>		

**Applicable Requirements**

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

45 CSR 13 – SO<sub>2</sub> emissions shall not exceed 2,000 ppm by volume (TV 5.1.6)  
45 CSR 13 – H<sub>2</sub>S emissions shall not exceed 50 gr/100cf (TV 5.1.7)  
45 CSR 13 – 40 CFR 63 Subpart HH Benzene exemption requirements (TV 5.1.8, TV 5.1.14, R13-2963 6.1.7)  
45 CSR 13 – Maximum Emission Limits (TV 5.1.9, R13-2963 6.1.1)  
45 CSR 13 – The maximum wet natural gas shall not exceed 9 MMcf/day (TV 5.1.10, R13-2963 6.1.2)  
40 CFR 63.760(f)(6) – Compliance with NESHAP HH is required upon initial start-up (TV 5.1.12, 5.1.13)  
40 CFR 63.764(a) – Compliance with 40 CFR, Part 63, Subpart A, as listed in Table 2 of NESHAP HH (TV 5.1.14, R13-2963 6.1.8)  
40 CFR 63.772(b)(2) – Procedures for determining benzene emissions for exemption under 40 CFR 63.764(e)(1) (TV 5.1.15, R13-2963 6.1.9)

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**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

45 CSR 30-5.1.c - Compliance with TV 5.1.5 and 5.1.14 will be demonstrated by using GLYCalc V3 or higher and monitoring actual operating parameters (TV 5.2.1, R13-2963 6.2.1)  
45 CSR 30-5.1(c) – SO<sub>2</sub> emissions shall be complied with by once-per-permit-term sampling of inlet natural gas stream (TV 5.2.3)  
45 CSR 30-5.1(c) – H<sub>2</sub>S emissions shall be complied with by once-per-permit-term sampling of inlet natural gas stream (TV 5.2.4)  
45 CSR 13 – Wet Gas Throughput shall be monitored on a daily and monthly basis (TV 5.2.5, R13-2963 6.2.2)  
45 CSR 13 – Wet Gas Sampling (TV 5.3.1, R13-2963 6.3.1)  
45 CSR 13 – Facility-wide HAP emission calculations shall be maintained to demonstrate compliance with TV 5.1.5 (TV 5.4.2, R13-2963 4.4.4)  
45 CSR 13 – Wet gas throughput records shall be maintained to demonstrate compliance with TV 5.1.10 (TV 5.4.4, R13-2963 6.4.2)  
40 CFR 63.774(d)(1)(ii) – Maintain records of the actual benzene emissions (TV 5.4.9, R13-2963 6.4.7)  
40 CFR 63.775(d) – NESHAP HH reports (TV 5.5.7, R13-2963 6.5.5)

**Are you in compliance with all applicable requirements for this emission unit?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description*

<b>Emission unit ID number:</b> RBR02	<b>Emission unit name:</b> RBR02 Dehydration Unit Reboiler	<b>List any control devices associated with this emission unit:</b> N/A
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

A natural gas fired boiler used to reheat glycol within the dehydration unit.

<b>Manufacturer:</b> Cameron	<b>Model number:</b> 300/550	<b>Serial number:</b> A15112001583501
<b>Construction date:</b> 2012	<b>Installation date:</b> 2013	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

0.77 MMBtu/hr

<b>Maximum Hourly Throughput:</b> 635 cf/hr	<b>Maximum Annual Throughput:</b> 5.6 MMcf/yr	<b>Maximum Operating Schedule:</b> 8760 hrs/yr
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 0.77 MMBtu/hr	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Natural gas

- Maximum hourly fuel usage = 635 cf/hr
- Maximum annual fuel usage = 5.6 MMcf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf



<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.02	0.09
Nitrogen Oxides (NO <sub>x</sub> )	0.03	0.13
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	< 0.01	0.01
Particulate Matter (PM <sub>10</sub> )	< 0.01	0.01
Total Particulate Matter (TSP)	0.01	0.03
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.03	0.15
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	< 0.01	< 0.01
n-Hexane	< 0.01	0.01
Toluene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b> <ul style="list-style-type: none"> <li>- NO<sub>x</sub>, CO, and VOC emission factors from Dominion Spec Sheet 2/20/2012</li> <li>- PM, PM<sub>10</sub>, PM<sub>2.5</sub>, and SO<sub>2</sub> emission factors from AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-2, 7/98</li> <li>- HAP emission factors from AP-42, Section 1.4, Natural Gas Combustion, Tables 1.4-3, 4, 7/98</li> </ul>		

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

45 CSR 13 and 45 CSR 2-3.1 – Visible Emission Limits (TV 4.1.1, R13-2963 5.1.2)

45 CSR 13 – Emission Limits (TV 4.1.2, R13-2963 5.1.1)

☒ Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

45 CSR 13 – Compliance with 4.1.1 is demonstrated by combusting natural gas, conducting Method 9 upon request of Secretary, and maintaining records of actual operating hours (TV 4.2.1, TV 4.4.1, TV 4.5.1, R13-2963 5.2.1, R13-2963 5.4.1, R13-2963 5.5.1).

**Are you in compliance with all applicable requirements for this emission unit?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**Attachment G**

Air Pollution Control Device Form

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> F1	<b>List all emission units associated with this control device.</b> DEHY02, RBR02
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<b>Manufacturer:</b> QTI	<b>Model number:</b> Q100	<b>Installation date:</b> 2013
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**Type of Air Pollution Control Device:**

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input checked="" type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

**List the pollutants for which this device is intended to control and the capture and control efficiencies.**

Pollutant	Capture Efficiency	Control Efficiency
VOC		95%
Benzene		95%
Ethylbenzene		95%
n-Hexane		95%
Toluene		95%
Xylene		95%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

QTI dehydration unit controlled flare  
 4.0 MMBtu/hr non-assisted burner

**Is this device subject to the CAM requirements of 40 C.F.R. 64?** ☐ Yes ☒ No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** The dehy unit (DEHY02) is not subject to CAM since it is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990. Per 64.2(b)(1)(i), “*emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act*” are exempt from CAM. CAM was established to build in provisions for how compliance would be demonstrated for emission limits if not adequately covered by a NSPS or NESHAP rule.

In addition, for VOC purposes, the dehy unit is not subject to CAM per 64.2(b)(1)(vi), which states “*emission limitations or standards for which a part 70 or 71 permit specified a continuous compliance determination method, as defined in 64.1*” is exempt from CAM. Since the R13 permit for the facility (R13-2963) specifies a “continuous compliance determination method” condition (e.g. continuously monitoring the flare using a thermocouple to detect the presence of a flame) and that R13 condition was rolled into the Title V permit, CAM does not apply.

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

- 45 CSR 6-4.1 – Particulate Matter emission limit (TV 5.1.1)
- 45 CSR 6-4.3 – Incinerator operating requirements (TV 5.1.2, R13-2963 6.1.4)
- 45 CSR 6-4.5 – Incinerator operating requirements (TV 5.1.3)
- 45 CSR 6-4.6 – Incinerator odor prevention requirements (TV 5.1.4, R13-2963 6.1.4)
- 40 CFR 63.10(b)(3) – Facility shall maintain minor source of HAPs (TV 5.1.5, R13-2963 4.1.2)
- 45 CSR 10-4.1 – Sulfur Dioxide emission limit (TV 5.1.6)
- 45 CSR 10-5.1 – Hydrogen Sulfide emission limit (TV 5.1.7)
- 45 CSR 13 – Emission limits (TV 5.1.9, R13-2963 6.1.1)
- 45 CSR 13 – Operation and design of air pollution control equipment (TV 5.1.11, R13-2963 6.1.3)

**Monitoring**

- 45 CSR 30-5.1c – Compliance with 5.1.5 and 5.1.14 shall be demonstrated by using GLYCalc using actual operating parameters (TV 5.2.1, R13-2963 6.2.1)
- 45 CSR 30-5.1c – Compliance with 5.1.2 and 5.1.11 shall be demonstrated by conducting monthly visible emission observations (TV 5.2.2, R13-2963 6.2.3)
- 45 CSR 30-5.1.c – Compliance with 5.1.6 shall be demonstrated by once-per-permit-term inlet wet gas sampling (TV 5.2.3)
- 45 CSR 30-5.1.c – Compliance with 5.1.7 shall be demonstrated by once-per-permit-term inlet wet gas sampling (TV 5.2.4)
- 45 CSR 13 – Pilot flame monitoring requirements (TV 5.2.6, R13-2963 6.2.4)
- 45 CSR 13 – Operate and maintain the flare in conformance with its design (TV 5.2.7, R13-2963 6.2.5)

**Testing**

- 45 CSR 13 – Initial Method 22 (TV 5.3.3, R13-2963 6.3.3)
- 45 CSR 13 – Flare compliance assessment shall be conducted if required (TV 5.3.4, R13-2963 6.3.4)

**Recordkeeping**

- 45 CSR 13 – Records of annual HAP emissions (TV 5.4.1, R13-2963 4.4.4)
- 45 CSR 13 – Records of actual operating hours (TV 5.4.2, R13-2963 6.4.1)
- 45 CSR 13 – Records of visible emission and opacity observations (TV 5.4.4, R13-2963 6.4.3)
- 45 CSR 13 – Records of the flare design evaluation (TV 5.4.6, R13-2963 6.4.5)

**Reporting**

- 45 CSR 13 – Reporting of deviations of visible emissions requirements (TV 5.5.1, R13-2963 6.5.1)
- 45 CSR 13 – Report deviation from flare design and operation criteria (TV 5.5.3, R13-2963 6.5.3)